BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

RA 1ST AND FINAL BILL

Name of work: Improvements to Roads and Drains at HMT Layout, Thindlu, Virupakshapura and Surrounding area in Ward No. 09 (Vidyaranyapura).

Estimated Cost : Rs. 100.00 Lakhs

Job Code: 009-21-000005

Head of Account : P-3798 Special Developmental Works

Name of Agency: Sri. Aswathnarayana, # 38, Chanappa layout, Sharadhambhanagara, Jalahalli Village, Bangalore - 560013

Work order No: BBMP/EE/BTP/WO/154/2020-21 Dated: 08.12.2020.

Measurements Recarded on : 16-06-2021

Sl No	Description of work	No.	Mesurement L	B1	B2	Av.,B	D	Qty	Rate / Unit	Amount
1	**Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications								Cum	
	Qty as per Premeasurement vide E-MB Page No. 01 to 04 is =							1132.78	300.00	339834.00
2	Providing and laying Plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days Including cost of materials,labour, HOM curing form work, Scaffolding and Centering complete as per specifications.MORTH Specification								Cum	
	Qty as per Premeasurement vide E-MB Page No. 05 to 06 is =							116.37	5500.00	640035.00
6	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm								Cum	
	New Drain									
	HMT 4th Block, 6th Main Road E/S									
	From 13th Cross Ravishankar Guruji Scool Road	1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
		1.00	7.20			0.90	0.15	0.97		
	HMT 5th Block,6th Main Road E/S									
		1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore-97

25.27

Sl No	Description of work	Mesurement No.	L	B1	B2	Av.,B	D	Qty	Rate / Unit	Amount
		1.00	15.00			0.90	0.15	2.03	215-27	
		1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
		1.00	18.20			0.90	0.15	2.46		
	HMT 4th Block, 6th Main Road W/S									
	From Ground parallel Road	1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
		1.00	18.20			0.90	0.15	2.46		
	HMT 5th Block,6th Main Road W/S									
	From 16th Cr to 15th Cr	1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
		1.00	6.90			0.90	0.15	0.93		
	From 15 cr to 13 Cr									
		1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
	HMT Layout 4th Block 15th Cr									
	from 6th Main N/S	1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
		1.00	2.10			0.90	0.15	0.28		
	from 6th Main S/S									
		1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
		1.00	7.10			0.90	0.15	0.96		
	Cross Road E/S									
		1.00	18.40			0.90	0.15	2.48		
		1.00	15.00			0.90	0.15	2.03		
		1.00	8.50			0.90	0.15	1.15		
								102.82		

Assistant Executive Engineer
Yeshwanthapura Sub Division
BBMP, Bangalore

No	Description of work	Mesurement No.	L	B1	B2	Av.,B	D	Qty	Rate / Unit	Amount
	Cro Road W/S								102-82	
		1.00	16.00			0.90	0.15	2.16		
	4th Main Road E/S									
		1.00	15.00			0.90	0.15	2.03		
		1.00	15.00			0.90	0.15	2.03		
		1.00	7.70			0.90	0.15	1.04		
	Side Walls									
	HMT 4th Block, 6th Main Road E/S									
	From 13th Cross Ravishankar Guruji Scool Road	2.00	15.00			0.15	0.60	2.70		
		2.00	15.00			0.15	0.60	2.70		
		2.00	15.00			0.15	0.75	3.38		
		2.00	15.00			0.15	0.75	3.38		
		2.00	15.00			0.15	0.75	3.38		
		2.00	15.00			0.15	0.75	3.38		
		2.00	15.00			0.15	0.75	3.38		
		2.00	15.00			0.15	0.75	3.38		
		2.00	15.00			0.15	0.75	3.38		
		2.00	7.20			0.15	0.75	1.62		
	HMT 5th Block,6th Main Road E/S									
		2.00	15.00			0.15	0.60	2.70		
		2.00	15.00			0.15	0.60	2.70		
		2.00	15.00			0.15	0.75	3.38		
		2.00	15.00			0.15	0.75	3.38		
		2.00	15.00			0.15	0.75	3.38		
		2.00	15.00			0.10	0.45	1.35		
		2.00	15.00			0.15	0.75	3.38		
		2.00	15.00			0.15	0.75	3.38		
		2.00	15.00			0.15	0.75	3.38		
		2.00	15.00			0.15	0.75	3.38		
		2.00	18.20			0.15	0.75	4.10		
	HMT 4th Block, 6th Main Road W/S									
	From Ground parallel Road	2.00	15.00			0.15	0.60	2.70		
		2.00	15.00			0.15	0.60	2.70		
		2.00	15.00			0.15	0.75	3.38		
		2.00	15.00			0.15	0.75	3.38		
		2.00	15.00			0.15	0.75	3.38		
		2.00	15.00			0.15	0.75	3.38		
		2.00	15.00			0.15	0.75	3.38		
		2.00	15.00			0.15	0.75	3.38		
		2.00	15.00			0.15	0.75	3.38		
		2.00	15.00			0.15	0.75	3.38		
		2.00	18.20			0.15	0.75	4.10		
	HMT 5th Block,6th Main Road W/S									
	From 16th Cr to 15th Cr	2.00	15.00			0.15	0.75	3.38		
		2.00	15.00			0.15	0.75	3.38		
		2.00	6.90			0.15	0.75	1.55		219.98

CTE Checked 1/4/16
Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Sl No	Description of work	Mesurement						Qty	Rate / Unit	Amount
		No.	L	B1	B2	Av.,B	D			
	From 15 cr to 13 Cr								219.92	
		2.00	15.00			0.15	0.75	3.38		
		2.00	15.00			0.15	0.75	3.38		
		2.00	15.00			0.15	0.75	3.38		
		2.00	15.00			0.15	0.75	3.38		
		2.00	15.00			0.15	0.75	3.38		
	HMT Layout 4th Block 15th Cr									
	from 6th Main N/S	2.00	15.00			0.15	0.60	2.70		
		2.00	15.00			0.15	0.75	3.38		
		2.00	2.10			0.15	0.75	0.47		
	from 6th Main S/S									
		2.00	15.00			0.15	0.60	2.70		
		2.00	15.00			0.15	0.60	2.70		
		2.00	15.00			0.15	0.75	3.38		
		2.00	15.00			0.15	0.75	3.38		
		2.00	15.00			0.15	0.75	3.38		
		2.00	15.00			0.15	0.75	3.38		
		2.00	7.10			0.15	0.75	1.60		
	Cross Road E/S									
		2.00	18.40			0.15	0.60	3.31		
		2.00	15.00			0.15	0.60	2.70		
		2.00	8.50			0.15	0.60	1.53		
	Cross Road W/S									
		2.00	16.00			0.15	0.60	2.88		
	4th Main Road E/S									
		2.00	15.00			0.15	0.60	2.70		
		2.00	15.00			0.15	0.60	2.70		
		2.00	7.70			0.15	0.60	1.39		
					Sub Total			281.11		
	Total Qty							**279.29**		
	Qty upto 125%							**257.51**	**7200.00**	**1854072.00**
	Qty Above 125%							**21.78**	**7417.35**	**161550.00**

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

No	Description of work		Mesurement					Qty	Rate / Unit	Amount
		No.	L	B1	B2	Av.,B	D			
	Measurements Recarded on :	17-06-2021								
7	Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.								Tonne	
	Qty as per Premeasurement vide E-MB Page No. 07 is =							16.76		
	Qty upto 125%							**15.45**	**72326.00**	**1117437.00**
	Qty Above 125%							**1.31**	**75878.23**	**99400.00**
8	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work, curing, including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift, transportation etc ,copmplete. (Data Rate)								Sqm	
	HMT 4th Block, 6th Main Road E/S									
	From 13th Cross Ravishankar Guruji Scool Road	1.00	11.00			0.90		9.90		
		1.00	12.20			0.90		10.98		
		1.00	17.50			0.90		15.75		
		1.00	15.30			0.90		13.77		
		1.00	3.80			0.90		3.42		
	HMT 5th Block,6th Main Road E/S									
		1.00	24.20			0.90		21.78		
		1.00	8.70			0.90		7.83		
		1.00	9.30			0.90		8.37		
		1.00	12.00			0.90		10.80		
		1.00	1.80			0.90		1.62		
		1.00	15.00			0.90		13.50		
		1.00	15.00			0.90		13.50		
		1.00	3.50			0.90		3.15		
	HMT 4th Block, 6th Main Road W/S									
	From Ground parallel Road	1.00	0.60			0.90		0.54		
		1.00	1.20			0.90		1.08		
		1.00	3.00			0.90		2.70		
		1.00	3.00			0.90		2.70		
		1.00	6.60			0.90		5.94		
		1.00	1.20			0.90		1.08		
		1.00	0.60			0.90		0.54		
		1.00	5.40			0.90		4.86		
		1.00	4.80			0.90		4.32		
		1.00	0.60			0.90		0.54		
		1.00	3.00			0.90		2.70		
	HMT 5th Block,6th Main Road W/S									
	From 16th Cr to 15th Cr	1.00	15.30			0.90		13.77		
	From 15 cr to 13 Cr									
		1.00	1.80			0.90		1.62		
		1.00	1.20			0.90		1.08		
		1.00	0.60			0.90		0.54		
	HMT Layout 4th Block 15th Cr									
	from 6th Main N/S	1.00	7.90			0.90		7.11		

185.49

C&F.C. A.E. (Estt. Dept.)

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore-97

Sl No	Description of work	Mesurement						Qty	Rate / Unit	Amount
		No.	L	B1	B2	Av.,B	D			
		1.00	1.20			0.90		1.08	185.00	
		1.00	9.70			0.90		8.73		
		1.00	1.20			0.90		1.08		
	from 6th Main S/S									
		1.00	11.60			0.90		10.44		
		1.00	13.10			0.90		11.79		
		1.00	16.00			0.90		14.40		
		1.00	9.30			0.90		8.37		
		1.00	13.30			0.90		11.97		
	Cross Road E/S									
		1.00	18.40			0.90		16.56		
		1.00	15.00			0.90		13.50		
		1.00	7.40			0.90		6.66		
	Cross Road W/S									
		1.00	7.50			0.90		6.75		
		1.00	0.60			0.90		0.54		
	4th Main Road E/S									
		1.00	12.30			0.90		11.07		
		1.00	3.00			0.90		2.70		
		1.00	2.40			0.90		2.16		
		1.00	10.60			0.90		9.54		
	Cr	1.00	3.80			0.90		3.42		
								326.25		
	Total							326.07	2337.00	762026.00

C&F.C

A.E (MP. DIV.)

Assistant Executive Engineer
Vidyaranyapura Sub Division
BMP, Bengaluru

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyaranyapura Sub Division

No	Description of work	No.	L	B1	B2	Av.,B	D	Qty	Rate / Unit	Amount
	Measurements Recarded on :	21-06-2021								
10	Providing and fixing **pre cast solid cement concrete kerb stones** made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge.								Nos	
	Kerb Stone									
	HMT 4th Block, 6th Main Road E/S									
	From 13th Cross Ravishankar Guruji Scool Road	1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	7.20					7.20		
	HMT 5th Block,6th Main Road E/S									
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	18.20					18.20		
	HMT 4th Block, 6th Main Road W/S									
	From Ground parallel Road	1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	18.20					18.20		
	HMT 5th Block,6th Main Road W/S									
	From 16th Cr to 15th Cr	1.00	15.00					15.00		
		1.00	15.00					15.00		
		4.00	6.90					6.90		
	From 15 cr to 13 Cr									
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1,00	15.00					15.00		
	HMT Layout 4th Block 15th Cr									
	from 6th Main N/S	1.00	15.00					15.00		
		1.00	15.00					15.00		

620.50

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore

Sl No	Description of work	Mesurement						Qty	Rate / Unit	Amount
		No.	L	B1	B2	Av.,B	D			
		1.00	2.10					2.10	620.00	
	from 6th Main S/S									
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	7.10					7.10		
	Cross Road E/S									
		1.00	18.40					18.40		
		1.00	15.00					15.00		
		1.00	8.50					8.50		
	Cross Road W/S									
		1.00	16.00					16.00		
	4th Main Road E/S									
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	7.70					7.70		
						Sub Total		815.30		
	Total length							815.30		
	No of Kerb Stones		Total Length/0.45					1812		
								1812		
	Total							1724	432.00	744768.00

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyaranyapura Sub Division

Sl No	Description of work	Mesurement No.	L	B1	B2	Av.,B	D	Qty	Rate / Unit	Amount
	Measurements Recarded on :	23-06-2021								
11	Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.								Sqm	
	Kerb Stone Priming Coat									
	HMT 4th Block, 6th Main Road E/S									
	From 13th Cross Ravishankar Guruji Scool Road	1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	7.20				0.40	2.88		
	HMT 5th Block,6th Main Road E/S									
		1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	18.20				0.40	7.28		
	HMT 4th Block, 6th Main Road W/S									
	From Ground parallel Road	1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	18.20				0.40	7.28		
	HMT 5th Block,6th Main Road W/S									
	From 16th Cr to 15th Cr	1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	6.90				0.40	2.76		
	From 15 cr to 13 Cr									
		1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
	HMT Layout 4th Block 15th Cr									
	from 6th Main N/S	1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	2.10				0.40	0.84		
	from 6th Main S/S									
		1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	7.10				0.40	2.84		
	Cross Road E/S									
		1.00	18.40				0.40	7.36		
		1.00	15.00				0.40	6.00		
		1.00	8.50				0.40	3.40		

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

30406.64

Sl No	Description of work	Mesurement No.	L	B1	B2	Av.,B	D	Qty	Rate / Unit	Amount
	Cross Road W/S									
		1.00	16.00				0.40	6.40		
	4th Main Road E/S									
		1.00	15.00				0.40	6.00		
		1.00	15.00				0.40	6.00		
		1.00	7.70				0.40	3.08		
								326.12		
	Total							310.32	39.00	12102.00

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

	Measurements Recarded on :	23-06-2021								
12	**Painting two coats** after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications.								Sqm	
	Kerb Stone Painting									
			Qty Vide Item no. 13					310.32		
	Total							**310.32**	**90.00**	**27929.00**
13	Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications. MORTH / Chapter								Sqm	
	Qty as per Premeasurement vide E-MB Page No. 08 to 10 is =							**1664.32**	**95.00**	**158110.00**
14	Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications								Cum	
	Qty as per Premeasurement vide E-MB Page No. 11 to 13 is =							**416.08**	**2001.00**	**832576.00**
15	Providing and applying **primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of								Sqm	
	Qty as per Premeasurement vide E-MB Page No. 14 to 16 is =							**1664.32**	**29.00**	**48265.00**
16	Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen								Cum	
	Qty as per Premeasurement vide E-MB Page No. 17 to 19 is =							**84.66**	**7000.00**	**592620.00**
17	Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications.								Sqm	
	Qty as per Premeasurement vide E-MB Page No. 20 to 21 is =							**4755.20**	**6.75**	**32098.00**
18	Providing and **applying tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications								Sqm	
			Qty Vide Item no. 21					4755.20		
	Total							**4755.20**	**12.00**	**57062.00**

Sl No	Description of work	Mesurement No.	L	B1	B2	Av.,B	D	Qty	Rate / Unit	Amount
	Measurements Recarded on :	23-06-2021								
19	Providing and laying Bituminous Concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment , rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications.Clause 507 of MORTH V revision as per IRC SP-53-2015 - using 40-60 TPH capacity HMP with mechanical Paver, Gr-II (30-45mm) with 5.4 % of modified bitumen binder consisting of 4.97% VG- 30 bitumen (60/70 grade) 0.43% Plastomeric Thermoplastics (Waste plastic Additive).								Cum		
	HMT Layout From Ravishankar Guruji School									
	6th Main 4th Block									
		1.00	15.00	8.50	5.50	7.00	0.04	4.20		
		1.00	15.00	5.50	5.70	5.60	0.04	3.36		
		1.00	15.00	5.70	5.60	5.65	0.04	3.39		
		1.00	15.00	5.60	5.70	5.65	0.04	3.39		
		1.00	15.00	5.70	5.30	5.50	0.04	3.30		
		1.00	15.00	5.30	4.10	4.70	0.04	2.82		
		1.00	15.00	4.10	6.10	5.10	0.04	3.06		
		1.00	15.00	6.10	5.60	5.85	0.04	3.51		
		1.00	15.00	5.60	6.10	5.85	0.04	3.51		
		1.00	11.10	6.10	5.90	6.00	0.04	2.66		
	6th Main 5th Block									
		1.00	15.00	6.40	6.50	6.45	0.04	3.87		
		1.00	15.00	6.50	5.70	6.10	0.04	3.66		
		1.00	15.00	5.70	6.00	5.85	0.04	3.51		
		1.00	15.00	6.00	4.60	5.30	0.04	3.18		
		1.00	15.00	4.60	5.00	4.80	0.04	2.88		
		1.00	15.00	5.00	5.60	5.30	0.04	3.18		
		1.00	15.00	5.60	6.10	5.85	0.04	3.51		
		1.00	15.00	6.10	5.10	5.60	0.04	3.36		
		1.00	15.00	5.10	5.00	5.05	0.04	3.03		
		1.00	15.00	5.00	5.00	5.00	0.04	3.00		
		1.00	15.00	5.00	5.70	5.35	0.04	3.21		
		1.00	5.50	5.70	5.70	5.70	0.04	1.25		
	5th Main Road									
	From 15th Cross	1.00	15.00	5.10	4.80	4.95	0.04	2.97		
		1.00	15.00	4.80	5.10	4.95	0.04	2.97		
		1.00	15.00	5.10	4.90	5.00	0.04	3.00		
		1.00	15.00	4.90	5.70	5.30	0.04	3.18		
		1.00	15.00	5.70	5.10	5.40	0.04	3.24		
		1.00	15.00	5.10	5.50	5.30	0.04	3.18		
		1.00	3.30	5.50	7.50	6.50	0.04	0.86		
	14th Cross									
	From 5th Main	1.00	15.00	5.70	4.90	5.30	0.04	3.18		
		1.00	15.00	4.90	5.20	5.05	0.04	3.03		
		1.00	15.00	5.20	5.20	5.20	0.04	3.12		
		1.00	15.00	5.20	4.90	5.05	0.04	3.03		
		1.00	15.00	4.90	5.10	5.00	0.04	3.00		

105-61

Assistant Executive Engineer
Vidyaranyapura Sub Divn
BBMP, Bangalore

Sl No	Description of work	Mesurement No.	L	B1	B2	Av.,B	D	Qty	Rate / Unit	Amount
		1.00	15.00	5.10	5.00	5.05	0.04	3.03	105.61	
		1.00	15.00	5.00	5.00	5.00	0.04	3.00		
		1.00	15.00	5.00	4.20	4.60	0.04	2.76		
		1.00	15.00	4.20	4.80	4.50	0.04	2.70		
		1.00	12.80	4.80	9.10	6.95	0.04	3.56		
	15th Cross									
	From School Main Road	1.00	15.00	9.00	5.00	7.00	0.04	4.20		
		1.00	15.00	5.00	5.10	5.05	0.04	3.03		
		1.00	15.00	5.10	4.70	4.90	0.04	2.94		
		1.00	15.00	4.70	4.50	4.60	0.04	2.76		
		1.00	15.00	4.50	4.70	4.60	0.04	2.76		
		1.00	15.00	4.70	4.70	4.70	0.04	2.82		
		1.00	15.00	4.70	4.30	4.50	0.04	2.70		
		1.00	15.00	4.30	5.40	4.85	0.04	2.91		
		1.00	15.00	5.40	5.10	5.25	0.04	3.15		
		1.00	15.00	5.10	5.30	5.20	0.04	3.12		
		1.00	15.00	5.30	5.20	5.25	0.04	3.15		
		1.00	15.00	5.20	5.70	5.45	0.04	3.27		
		1.00	15.00	5.70	5.10	5.40	0.04	3.24		
		1.00	15.00	5.10	5.30	5.20	0.04	3.12		
		1.00	6.60	5.30	5.20	5.25	0.04	1.39		
	4th Main									
	From 15th Cross	1.00	15.00	5.50	4.80	5.15	0.04	3.09		
		1.00	15.00	4.80	4.60	4.70	0.04	2.82		
		1.00	11.50	4.60	6.10	5.35	0.04	2.46		
	Balance Length of 11th Main NTI Layout									
		1.00	15.00	4.60	4.40	4.50	0.04	2.70		
		1.00	16.00	4.40	4.90	4.65	0.04	2.98		
	Sapthagiri Layout 5th Main									
		1.00	15.00	4.50	4.60	4.55	0.04	2.73		
		1.00	15.00	4.60	4.10	4.35	0.04	2.61		
		1.00	18.50	4.10	3.60	3.85	0.04	2.85		
		1.00	15.00	4.50	4.80	4.65	0.04	2.79		
		1.00	10.00	4.80	4.60	4.70	0.04	1.88		
	Deductions Manholes	10.00	3.14			1.00	0.04	-1.26		
		1.00	6.00			0.60	0.04	-0.14		
								190.86		
	Total							190.21	9000.00	1711890.00

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyaranyapura Sub Division

Sl No	Description of work		Mesurement					Qty	Rate / Unit	Amount
		No.	L	B1	B2	Av.,B	D			
	Measurements Recarded on :	23-06-2021								
20	**Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications.								Sqm	
	HMT Layout From Ravishankar Guruji School									
	6th Main 4th Block									
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	11.10			0.10		0.56		
	6th Main 5th Block									
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	5.50			0.10		0.28		
	5th Main Road									
	From 15th Cross	0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	3.30			0.10		0.17		
	14th Cross									
	From 5th Main	0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	12.80			0.10		0.64		
	15th Cross									
	From School Main Road	0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		

Assistant Executive Engineer
Vijayanagara Sub Division
BBMP, Bangalore - 97

Sl No	Description of work	Mesurement						Qty	Rate / Unit	Amount
		No.	L	B1	B2	Av.,B	D			
		0.50	15.00			0.10		0.75	30.84	
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	6.60			0.10		0.33		
	4th Main									
	From 15th Cross	0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	11.50			0.10		0.58		
	Balance Length of 11th Main NTI Layout									
		0.50	15.00			0.10		0.75		
		0.50	16.00			0.10		0.80		
	Sapthagiri Layout 5th Main									
		0.50	15.00			0.10		0.75		
		0.50	15.00			0.10		0.75		
		0.50	18.50			0.10		0.93		
		0.50	15.00			0.10		0.75		
	Side Line									
	HMT Layout From Ravishankar Guruji School									
	6th Main 4th Block									
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	11.10			0.10		2.22		
	6th Main 5th Block									
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	5.50			0.10		1.10		
	5th Main Road									
	From 15th Cross	2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		

Assistant Executive Engineer, Vijayanagara Sub Division, BBMP, Bangalore - 9

120.84

No	Description of work	Mesurement No.	L	B1	B2	Av.,B	D	Qty	Rate / Unit	Amount
		2.00	15.00			0.10		3.00	120.84	
		2.00	15.00			0.10		3.00		
		2.00	3.30			0.10		0.66		
	14th Cross									
	From 5th Main	2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	12.80			0.10		2.56		
	15th Cross									
	From School Main Road	2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	6.60			0.10		1.32		
	4th Main									
	From 15th Cross	2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	11.50			0.10		2.30		
	Balance Length of 11th Main NTI Layout									
		2.00	15.00			0.10		3.00		
		2.00	16.00			0.10		3.20		
	Sapthagiri Layout 5th Main									
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	18.50			0.10		3.70		
		2.00	15.00			0.10		3.00		
								227.58		
	Total							**208.25**	**454.00**	**94546.00**
									Grand Total	**9286320.00**

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97
23/5

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyaranyapura Sub Division